SVERDLIK, B.D. (Karaganda, prosp. Stalina, d.5, kv.16)

Case of a hemorrhagic cyst in the mesentery proper in a 6-year old girl. Nov. khir. arkh. no.4:101-102 Jl-Ag '61. (MIRA 15:2)

1. Khirurgicheskoye otdeleniye Karagandinskoy gorodskoy bol'nitsy No.8. (MESENTERY_TUMORS)

MENDELEYEV, I.S., inzh.; TROYETSKAYA, A.A., inzh.; SVERDLIK, L.V., inzh.

Practical method of calculating generator - engine systems with triple winding exciters for electric propulsion diagrams. Sudostroenie 26 no.6:28-32 Je '60. (MIRA 13:7).

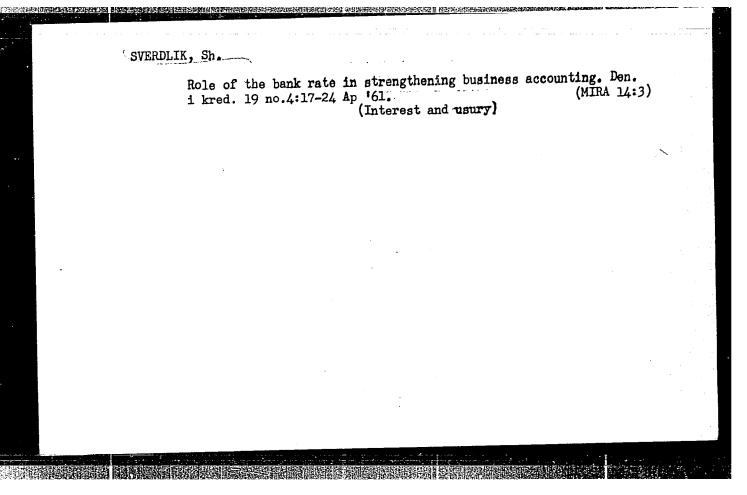
(Ship propulsion, Electric)

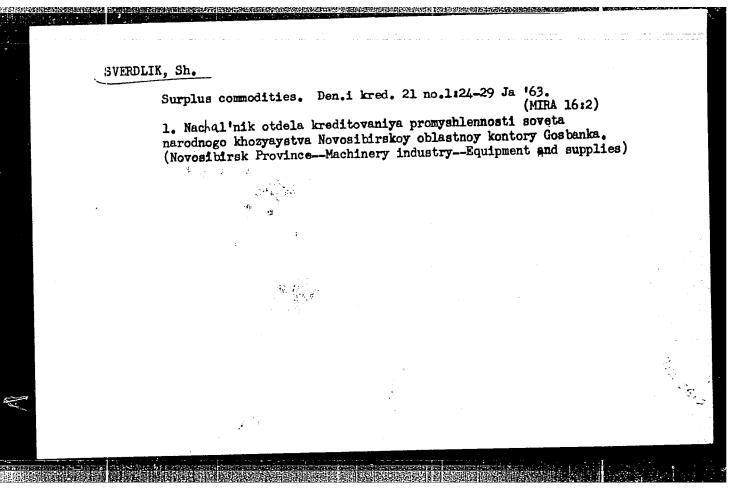
MENDELEYEV, I.S., inzh.; VOLOKHOV, S.A., inzh.; SVERDLIK, L.V., inzh.

Power losses in the steel of d.c. machines with large inductance values. Vest. elektroprom. 34 no.4:48-51 Ap '63.

DOLGIN, I.; SVERDLIK, Sh.; RAKHSHEYEV, A.

Changes in the system of noncash payments. Den. i kred. 16 no.8:
25-31 Ag '58. (Payment)





SHTEYNSHLEYGER, S.; SVERDLIK, Sh.

Ways to increase bank control over inefficient enterprises.

[MIRA 16:5]

Den. i kred. 21 no.5:13-20 My 163.

(Hanks and banking)

(Industrial management)

83370

S/051/60/009/003/009/011 E201/E691

26.1512

AUTHORS: Sera, T. Ya. and Sverdlik, V.V.

TITLE: A New Band in the Absorption Spectrum of Polycrystalline Cadmium Sulphide Layers

PERIODICAL: Optika i spektroskopiya, 1960, Vol. 9, No. 3, pp. 407-409

TEXT: The authors studied the effect of heat treatment on the absorption spectra of polycrystalline cadmium sulphide layers. Non-luminescent bright-yellow cadmium sulphide powder was sublimated in vacuum onto glass plates. Layers produced in this way were about 10^{-6} cm thick so that interference did not affect absorption measurements. Absorption spectra were recorded in the 400-600 mm region with a quartz photoelectric spectrophotometer SF-4. Before heat treatment the absorption spectrum had its usual form (Fig.la). After heating in air for 5 min at 300° C a new wide band appeared with a maximum at 485 mm (Fig.l6). This band can be seen more clearly in Fig.le which represents subtraction of the curve a from the curve of in Fig.l. The same band could be produced by heating in vacuo, i.e. it was not due to interaction with atmospheric oxygen. Additional experiments

card 1/2

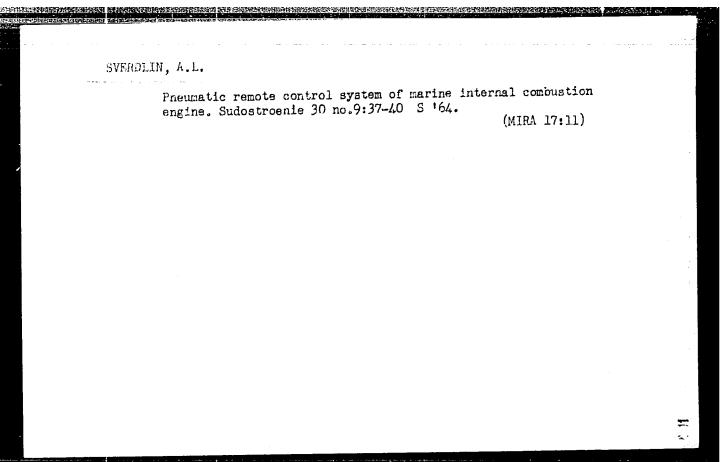
83370 \$/051/60/009/003/009/011 B201/B691

A New Band in the Absorption Spectrum of Polycrystalline Cadmium Sulphide Layers

showed (Fig. 2) that the new band was not produced by structural changes during heat treatment. It was concluded that a new band originated as follows. Heating caused local cracks which could be seen with a microscope. Metal atoms collected in these cracks producing centres responsible for the additional absorption in the 430-540 mm region with a maximum at 485 mm. The new absorption band was accompanied by a sharp rise of the electrical resistance. There are 2 figures and 8 references; 7 Soviet and 1 English.

SUBMITTED: August 11, 1959

Card 2/2



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SVERDING A. 3.

GODNEV, I. N. and SVERDLIN, A. S.

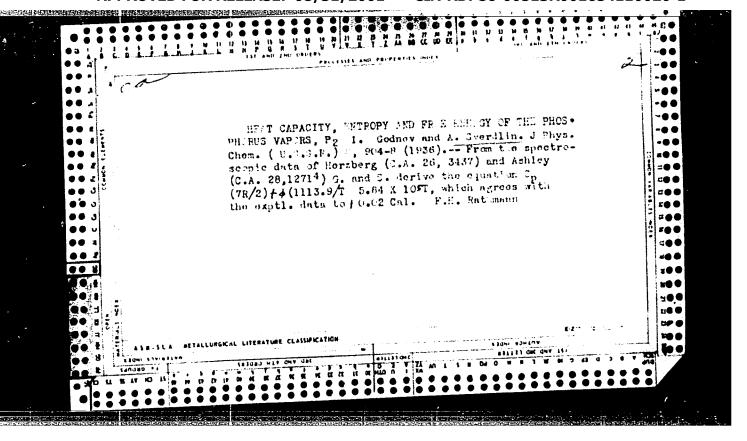
Khimstroi 6, 8-14 (1934)

Heat capacities of gases at high pressures.

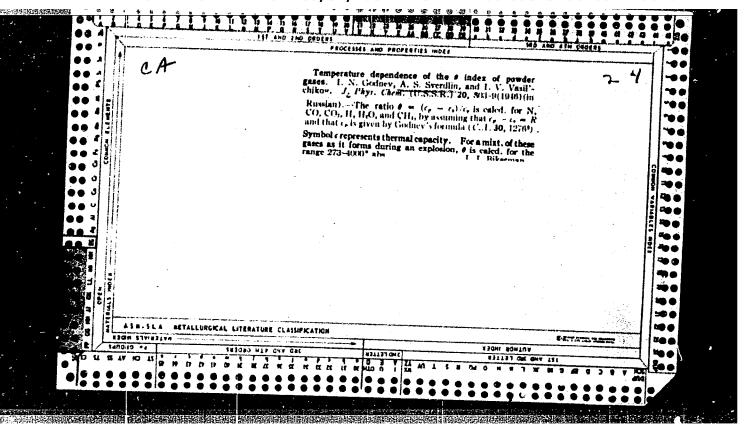
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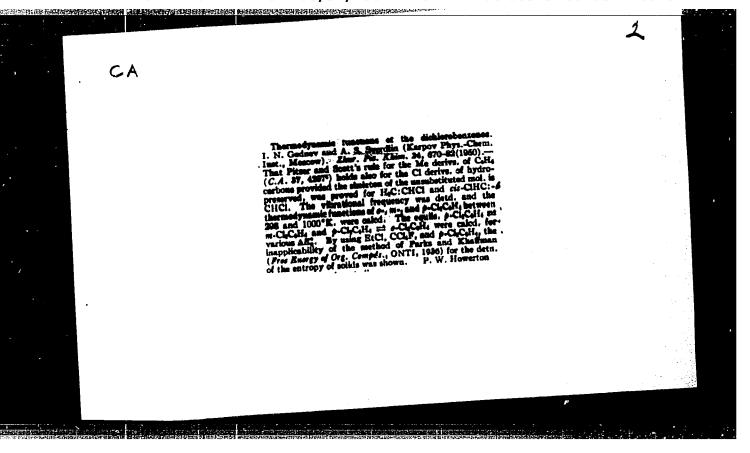
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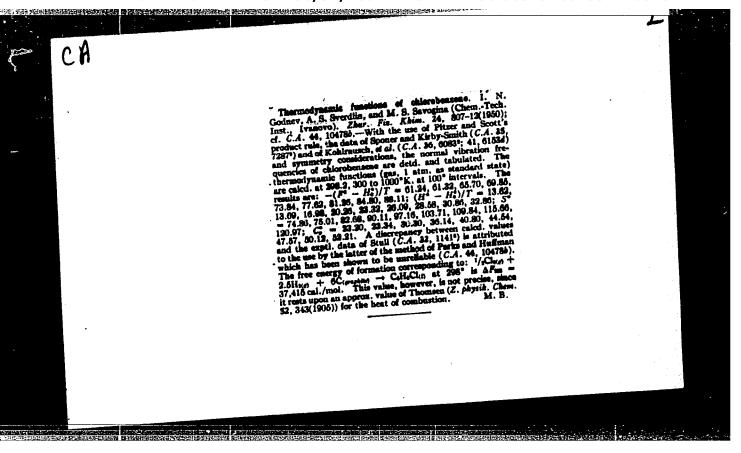
PROTECTED)		
SVERDLIN, A.		
GODNEV, I. N. and SVERDLIN, A. Z. Physik <u>97</u> , 124-30 (1935)	CA: 30-371/9	
Specific heat, entropy and free energy of sulfur (S ₂) vapor at temperatures between 100° and 5000° K.		
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RECEIVED.		



GODEEV. I.; PAYUKHIMA, A.; SVENDLIN, A.
Chemico-Technological Institute, Ivanovo. (-1940-).
"The Thermodynamic Functions of Acetone."
Zhur. Fiz. Khim., Vol. 14, No. 3, 1940.







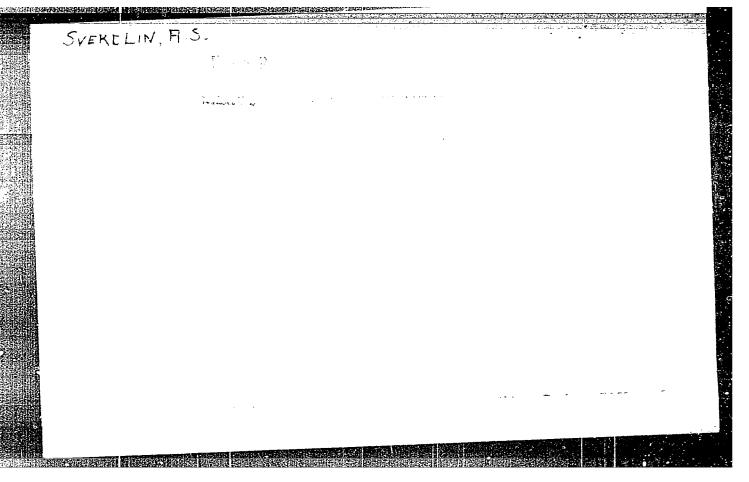
CIA-RDP86-00513R001654110020-1 "APPROVED FOR RELEASE: 08/31/2001

MOROZOV, V. I., VASILICHIKOV, I. V. SVERDLIN, A. S., GODNEY, I. N.

Formaldehyde

Force constants and action coefficients of the formaldehyde molecule. Zhur.fiz.khim., 16, No. 6, 1952.

Monthly List of Russian Accessions, Library of Congress, November 1952. Unclassified.



SVERDLIN, A. S.

USSR/Chemistry

Card 1/1

Author

Sverdlin, A. S. mangraphen (Cristian September 1997)

Title

: Thermodynamic functions of halogen derivatives of methane. Thermodynamic functions of chloro- and iodine derivatives of methane

Periodical

1 Zhur. Fiz. Khim., 28, Ed. 5, 780 - 784, May 1954

Abstract

: The calculations of the thermodynam_c functions of chlor and iod-derivatives of methane were carried out with the aid of formulas adopted for the case of quasi-solid molecules and fundamental constants. The molecular data and the oscillation frequencies computed by P. G. Maslov and B. I. Stepanov served as bases for the compilation of thermodynamic function tables for above mentioned methane derivatives at a temperature range of 298.2 - 1000° K. Seventeen references: 7-USSR, 9-USA, 1-German. Tables

Institution : Chemical-Technological Institute, Ivanovo

Submitted

: June 22, 1953

SVERDLIN, A.S.

USSR/ Physics

Card 1/1

Pub. 147 - 8/21

Authors

Sverdlin, A. S., and Godnev, I. N.

Title

Application of zero approximations and partial frequencies for an approximate solution of the molecular oscillation problem

Periodical :

Zhur. fiz. khim. 29/10, 1807-1814, Oct 1955

Abstract

The problem of applying partial frequencies and diagonal zero approximations for the calculation of oscillation frequencies in a molecule was discussed. It was found that nine simple equations of motion correspond to diagonal zero approximations two of which can be interpreted as partial frequencies. Two other partial frequencies Bi and Mi were in total disagreement with the diagonal zero approximations. A certain natural zero approximation, introduced by M. A. Elyashevich and B. I. Stepanov, was found to be the most suitable of all the other zero approximations and partial frequencies. Twelve references: 10 USSR and 2 USA (1940-1953). Tables.

Institution:

Ivanovo Chemicotechnological Inst.

Submitted

January 10, 1955

SVERDIAN, A. S.

SVERDLIN, A. S.: "Rul-approximations and the partial frequencies of a problem of oscillations in a molecule and their application to the calculation of thermodynamic functions of halogen derivatives of methane." Min Education RSFSR. Leningrad State Pedagogical Inst imeni A. I. Gertsen. Leningrad, 1956. (Dissertation for the Degree of Candidate in Physicomathematical Science)

Source: Knizhnaya letopis No. 28 1956 Moscow

Sverdin, A.S.

USSR/Thermodynamics. Thermochemistry. Equilibria. Physico-

B- 8

Chemical Analysis. Phase Transitions.

Abs Jour : Ref Zhur - Khimiya, No 8, 1957, 26082

: I.N. Godnev, A.S. Sverdin Author

: Equilibrium of Dichlorobenzene Isomers. Title

Orig Pub : Zh. fiz., khimii, 1956, 30, No 5, 1185.

Abstract : The equilibrium constants and the composition of the equilibrium

mixtures at 298, 16, 600 and 800°K were computed for the reactions n-C6H4Cl2 (gas) = m-C6H4Cl2 (gas) and n-C6H4Cl2 (gas) = o-C6H4Cl2 (gas) on the basis of bibliographic data (Godnev, I. N., Sverdlin, A.S., Zh. fiz. khimii, 1950, 24, 670; RZhKhim, 1955, 9177).

: 1/1 Card

CIA-RDP86-00513R001654110020-1 "APPROVED FOR RELEASE: 08/31/2001 **建筑是美洲洲南部沙漠 医加克克氏 医克克氏试验 建胶层性成体的 经收益的 经根据的股份 经现代证明 电对关记录 计分析 多名语言的 网络拉拉斯阿拉斯斯拉斯斯拉斯斯拉斯斯**

SVERDLIN A S

51-6-4/26

Sverdlin, A. S. and Ushanova, N. I. Godnev, I. N., AUTHORS:

Calculation of the Normal Vibration Frequencies and of Thermodynamic Functions of Germanium Tetraiodide. TITLE:

(Vychisleniye chastot normal nykh kolebaniy i termodinamicheskikh funktsiy chetyrekhiodistogo

germaniya.)

PERIODICAL: Optika i Spektroskopiya, 1957, Vol.II, Nr.6,

pp. 704-709. (USSR)

This paper reports approximate calculation of the normal vibration frequencies for germanium tetraiodide ABSTRACT:

These frequencies were calculated by extrapolation of the coefficients of induction (vliyaniya) of the molecules GeF4, GeCl4 and GeBr4. dependence of the reduced induction coefficients for the above three molecules on the equilibrium bond lengths the coefficients of induction for GeI4 were The results are given in Table $\overline{2}$.

mean values of the normal frequencies of GeI4 were

found to be: 171, 60, 276 and 87 cm-1. This method

Card 1/3

51-6-4/26

Calculation of the Normal Vibration Frequencies and of Thermodynamic Functions of Germanium Tetraiodide.

was checked by applying it to the molecule of SiI4. This was done by extrapolation of the inductions coefficients for SiF4, SiCl4 and SiBr4. calculated results for SiI4 are given in Table 4. Comparison of the calculated values for the normal frequencies of SiI4 with those obtained experimentally (Refs. 15, 21) shows that the error does not exceed 20 cm-1 for the two higher frequencies of 168 and 405 For the SiI4 frequencies of 63 and 94 cm the error was only 10 cm-1. The present authors conclude that the results of Jolly and Latimer (Ref.1) are incorrect. The latter two authors used Hildebrand's method (Ref.2) and obtained results which are considerably too low. Thermodynamic functions for GeI4 are given in Table 6. They were calculated assuming harmonic vibrations and a rigid rotator model. There is 1 figure, 6 tables and 24 references, 9 of which are Slavic.

Card 2/3

SOV/51-5-6-12/19

AUTHOR:

TITLE:

Sverdlin, A.S. Approximate Relationships Between Frequencies of Isotopic Molecules

of the XY4 Type (Priblizhennyye sootnosheniya mezhdu chastotami

izotopicheskikh molekul vida XY4)

PERIODICAL: Optika i Spektroskopiya, 1958, Vol 5, Nr 6, pp 702-704 (USSR)

The present note deals with simple formulae for calculation of F2symmetry frequencies of isotopic modifications of tetrahedral molecules. ABSTRACT:

The formulae obtained satisfy the product rule or Teller and Redlich (Refs 6, 7). They are more convenient than the latter rule since they make it possible to calculate separately frequencies of isotopic

molecules. The formulae were checked by calculation of the frequencies v3 and v4 of CD, SiD4 and GeD4 molecules. Table 1 gives the calculated values and those obtained by Tatevskiy (Ref 1). Both Tatevskiy and the present author used the data of Ref 8. Table 1 shows that the formulae established by the present author (see cols. 5, 9 and 12) and those of

Tatevskiy (see cols. 4, 8 and 11) yield equally good approximations. Since the assignment of the & and V4 frequencies of GeH4 was found to

be incorrect (see Ref 10, 11) the author calculated the ν_3 and ν_4 of Card 1/2

Approximate Relationships Between Frequencies of Isotopic Molecules of the

GeD₄ using new experimental data of Ref 11. The results of calculation are given in col. 4 of Table 2; they agree well with the experimental values listed in col. 3. There are 2 tables and 11 references, 5 of which are Soviet, 2 American, 2 German and 2 translations.

SUBMITTED: May 4, 1958

Card 2/2

76-32-3-25/43 AUTHOR: Sverdlin, A. S. Thermodynamic Functions of the Halogen Derivatives of TITLE: Methane (Termodinamicheskiye funktsii galoidoproizvodnykh metana). III. Formulae for Approximate Calculations of the Coefficients of the Molecular Influence of Type XY, and Thermodynamic Functions of CJ₄ and CHJ₃ (III. Formuly dlya priblizhennogo vychisleniya koeffitsiyéntov vliyaniya molekul vida XY4 i termodinamicheskiye funktsii CJ4 i CHJ3) Zhurnal Fizicheskoy Khimii, 1958, Vol 32, Nr 3, PERIODICAL: pr 659-665 (USSR) The present paper is connected with a preceding one. It makes ABSTRACT: possible a more exact coefficients of influence CJ₄ and frequencies of CHJ₃ as well as a precise determination of the calculated thermodynamic functions of these compounds.

according to M. A. Yel'yashevich and B. I. Stepanova in the case of the two-dimensional block with the consideration of the condition $D_{12} \bowtie \emptyset$ can be represented as a combination of the partial frequencies, from which simple equations for approximate calculations of the influence coefficients of the

It was noticed that the zero approximation

Card 1/3

Thermodynamic Functions of the Halogen Derivatives of Methane. III. Formulae for Approximate Calculations of the Coefficients of the Molecular Influence of Type XY_4 and Thermodynamic Functions of CJ_A and CHJ_3

76-32-3-25/43

molecule XY₄ can be derived without knowing the spectrum of isotopic modifications. The results for CF₄, CCl₄ and CBr₄ calculated according to the derived formulae are compared in tables with those according to the method by B. I. Stepanova (ref. 7). It is then stated that the values for CJ₄, which were calculated in the preceding paper by P. G. Maslov (ref. 3), were not in agreement with the obtained results, and were thus newly calculated corresponding to the obtained results. In the investigations of the dependence of the influence coefficients on the equilibrium bond lengths

in the transition $\operatorname{CF}_4 \to \operatorname{CCl}_4 \to \operatorname{CBr}_4$; which were performed graphically, the frequencies for CJ_4 were calculated on the basis of the obtained data and formulae. The obtained results are compared with those calculated according to P. G. Maslov (ref. 8), and calculations of SiBr_4 vibration frequencies were performed for the verification of the method employed. The method of combined partial frequencies is also employed for correction calculations of the thermodynamic finctions of CHJ_3 . The results are approximately in

Cand 2/3

Thermodynamic Functions of the Halogen Derivatives of Methane. III. Formulae for Approximate Calculations of the Coefficients of the Molecular Influence of Type XY $_4$ and Thermodynamic Functions of CJ $_4$ and CHJ $_5$

76 32-3-25/43

agreement with the data of Plyler and Benedict (ref. 18). A table of the thermodynamic functions of ${\rm CJ_4}$ and ${\rm CHJ_3}$ at

298,2-1000°K is given.

There are 2 figures, 6 tables, and 20 references, 12 of which

are Soviet.

ASSOCIATION:

Ivanovskiy khimiko-tekhnologicheskiy institut (Chemical and Technological Institute, Ivanovo)

SUBMITTED:

November 9, 1956

Card 3/3

GODNEY, I.N.; SVERDLIN, A.S.

Familibrium of dichlorobenzene isomers. Zhur. fiz. khim.

Equilibrium of dichlorobenzene isomers. Zhur. fiz. khim. 35 no.2:474-475 F *61. (MIRA 16:7)

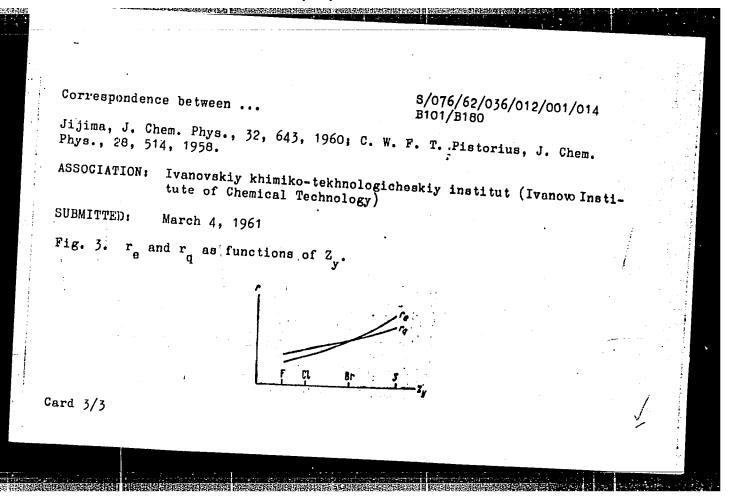
1. Ivanoskiy khimiko-tekhnologicheskiy institut.
(Benzene) (Phase rule and equilibrium)

5/076/62/036/012/001/014 B101/B180 Godney, I. N., Aleksandrovskaya, A. M., and Sverdlin, A. S. AUTHORS: Correspondence between the force constants of XY and XY (Ivanovo) molecules, where X is a IVB subgroup element and \vec{Y} a halogen TITLE: Zhurnal fizicheskoy khimii, v. 36, no. 12, 1962, 2609 - 2615 The coefficients k of XY molecules are compared with the force PERIODICAL: constants k of XY molecules for halogen (Y) compunds of elements (X) of the IVB subgroup. Approximate equations are derived for calculating the dynamic coefficients of XY molecules by M. Larnaudie's method (J. Phys. et radium, 15, 365, 1954): $k_1 = k_1 + 3h = v_1^2/\varepsilon_y$; $k_2 = k_2 - 21 - 0 = v_2^2/\varepsilon_0^2$; $k_{11} = k_1 - h \approx v_3^2/A_{11} + A_{12}^2v_4^2/A_{11}|A|$; $k_{12} = \sqrt{2}(a - b) \approx -A_{12}v_4^2/|A|$; $k_{13} = k_1 - h \approx v_3^2/A_{11} + A_{12}^2v_4^2/A_{11}|A|$; $k_{14} = k_1 - h \approx v_3^2/A_{11} + A_{12}^2v_4^2/A_{11}|A|$; $k_{15} = v_1^2/\varepsilon_0^2$; $k_{16} = k_1 - h \approx v_3^2/A_{11} + A_{12}^2v_4^2/A_{11}|A|$; $k_{16} = v_1^2/\varepsilon_0^2$; $k_{17} = k_1 - h \approx v_2^2/\varepsilon_0^2$; $k_{17} = k_1 - h \approx v_3^2/\varepsilon_0^2$; $k_{17} = k_1 - h \approx$ $k_{22} = k_{\chi}^{2} = 0 \approx A_{11}v_{4}^{2/|A|}$ (1), where k_{1} and k_{2} are the reduced dynamic coefficients of the one-dimensional blocks, k₁₁, k₁₂, and k₂₂ are the Card 1/3

Correspondence between ...

S/076/62/036/012/001/014 B101/B180

reduced coefficients of the two-dimensional block A₁₁, A₁₂, and A₂₂ are the kinematic coefficients of the two-dimensional block. For the other symbols see M. V. Vol'kenshteyn, M. A. Yel'yashevich, B. I. Stepanov, Kolebaniya molekul (Vibrations of molecules); v. I., Gostekhteoretizdat, M., 1949. System (1) produced values for the force constants of CCl₄, CBr₄, SiF₄, GeCl₄, GeBr₄, and CF₄ which were consistent with published figures. The relation k *\sim k + 0.4 was obtained for chlorides, bromides, and iodides by comparing the k coefficients of halogen compounds of C, Si, Ge, Sn, and Pb with the k coefficients of diatomic molecules obtained by Y. P. Varshni (J. Chem. Phys., 28, 1081, 1958). Comparison of r the interatomic distances for diatomic molecules with r for XY₄ molecules yields r r r for iodides and r r for fluorides up to GeF₄. The course of r and r as a function of Z at constant X (Fig. 3) can be used for determining r of PbF₄, PbBr₄, and SnF₄. There are 1 figure and 3 tables. The most important English-language references are: Y. Morino, Y. Nakamura a. T.



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ACCISSION NR: AP3000480

S/0153/63/006/001/0165/0166

AUTHOR: Aleksandrovskaya, A. M.; Godnev, I. N.; Sverdlin,

TITIE: Thermodynamic functions of hafmium halides

SOURCE: Izv. VUZ: Khimiya i khim. tekhnologiya, v. 6, no. 1, 1963, 165-166

TOPIC TAGS: thermodynamic functions, enthalpy function, free energy function, entropy, specific heat, Hf chloride, Hf bromide, Hf iodide

ABSTRACT: As a supplement to their previous tabulation of the thermodynamic functions of iodides of fourth group elements; authors present a tabulation of the thermodynamic functions of hafnium iodide, hafnium chloride, and hafnium bromide. These were calculated from vibrational frequencies found by the method of A. W. Aleksandrovskaya and I. N. Godnev (Optika i spektroskopiya, 9, 273, 1960), using the interatomic separations found in the same article. Experimental (calorimetric) and calculated entropy values for Hf chloride at 485 and 496K agree to within 0.5%. Orig, art. has: 3 tables.

ASSOCIATION: Kafedra fiziki, Ivanovskiy khimiko-tekhnologicheskiy institut (Department of Physics, Ivanovskiy Chemical Technological Institute)

Card 1/2/

国政治政策和军机制的企业,但是国际政治的企业的企业的企业的企业,但是国际企业的企业,但是国际政治政策的企业,但是国际政治政策的企业,但是国际政治政策的企业,但是	
L 36180-66 EWT(m)/EWP(t)/ETI IJP(c) ES/JD/WN/JW/JG ACC NR: AP6014261 SOURCE CODE: UR/0153/66/009/001/0040/0043	1
AUTHOR: Godnev, I. N.; Sverdlin, A. S. ORG: Physics Department, Ivanovo Chemical Engineering Institute (Mafagra fiziki, Ivanovskiy khimiko-tekhnologicheskiy institut)	
TITIE: Heats of formation of gaseous uranium fluorides SOURCE: IVUZ. Khimiya i khimicheskaya tekhnologiya, v. 9, no. 1, 1966, 40-43 TOPIC TAGS: heat of formation, uranium compound, fluoride, heat of sublimation	
ADSTRACT: The heats of formation of gaseous UF5, UF4, UF3, UF2, and UF were calculated. In the case of UF4, the calculation involved the use of the heat of formation of the crystalline substance and of its heat of sublimation, and the value obtained of the crystalline substance and of its heat of sublimation, and the value obtained was $\Delta H_{298}^0 = -366 \text{ kcal/mole.}$ In the case of the remaining four fluorides, two methods were employed. In the first method, a curve of the heats of formation of gaseous upper the case of the property of the heats of the case of the property of the heats of the case of the case of the heats of the heats of the case of the heats of the heat of the case of the heats of the heat of the case of the heats of the heat of the case of the heat of	
results were recalculated for substitutions of a fluorine atom from UF _n (1. 6., the ting the curve of the heats of detachment of a fluorine atom from UF _n (1. 6., the ting the curve of the heats of reaction at 298 °K), according to the reaction curve of the heats of reaction at 298 °K), according to the reaction AH_{n} , UF _n (gas) \rightarrow UF _{n-1} (gas) \rightarrow F (gas) $+$ AH_{n} , as functions of n. The average heats of formation AH_{298} obtained by these two met	
UDC: 541.11+536.66	-

L 50955 55 EWT(m)/EWP(k)/T/EWP(v)/EWP(k)/ETI IJP(c) JH/JD, HM/HW ACC NR. AT6024927 SOURCE CODE: UR/2981/66/000/004/0175/0186 AUTHOR: Pospelov, K. S.; Chernyak, A. Ya.; Sverdlin, A. V. ORG: none TITLE: Mechanical properties of V92Ts high-strength aluminum alloy semi-products and welds 4 SOURCE: Alyuminiyevyye splavy, no. 4, 1966. Zharoprochnyye i vysokoprochnyye splayy (Heat resistant and high-strength alloys), 175-186 TOPIC TAGS: aluminum alloy, zirconium containing alloy, metal property, metal weld, metal welding, weld property /V92Ts aluminum alloy ABSTRACT: The mechanical properties of <u>V92Ts</u>-alloy <u>extruded</u> shapes, forgings, and welds were tested. All articles tested were made under production conditions, solution annealed at 4500 for 6 hr, water-quenched, and aged either naturally or artificially. It was found that artificial aging at 1000 for 96 hr produced the highest strength (tensile strength, 47.8-53.1 kg/mm²; yield strength, 34.8-45.6 kg/mm²; at elongation, 10.8-17.6%). Articles artificially aged at 60C for 24 hr and then at 2000 for 2 hr had the lowest strength (tensile strength, 38.5-43.7 kg/mm²; yield strength, 23.8-30.9 kg/mm²; at elongation, 11.4-16.4%). The optimum welding conditions were determined as follows: welding current, 140-160 amp (alternating current); tungsten electrode diameter, 3 mm; filler Card 1/2

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10.7—14.7%. Zirconium ar yield of 26.	The joints welded with	ded with V92 sv wire had a f 32.7—34.2 kg/mm², and en AMg61 and AMg4 wires (the ow tensile strength of 27.1 in elongation of 20.0—24.	latter containing
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SOV/110-59-1-17/28 AUTHORS:

Mendeleyev I.S., Troyetskaya A.A. and Sverdlin, L.V.

TITLE:

A Practical Method of Designing Three-Winding Direct-

Current Generators (Prakticheskiy metod rascheta trekhobmotochnykh generatorov postoyannogo toka)

PERIODICAL: Vestnik Elektropromyshlennosti,1959, Nr 1,pp 60-62 (USSR)

ABSTRACT: Direct-current generators with the special characteristics required for certain industrial drives may have two or three fiel d windings. This article describes practical methods of designing generators with three field windings. The external characteristics of a

generator are usually determined by the mechanical characteristic of the prime mover and are expressed by three points: (1) the no-load voltage and armature current when the prime mover is running light; (2) the normal rated current and voltage; (3) the voltage and current at which the prime mover stalls. The generator design commences with determination of the output and

selection of the type of machine. It is shown that the output for which the machine may be designed depends on Card 1/2

the shape of the external characteristics, as shown in

SOV/110-59-1-17/28

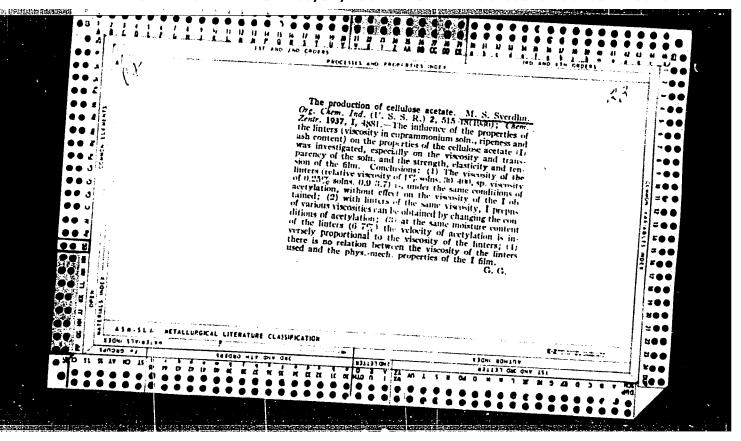
A Practical Method of Designing Three-Winding Direct-Current Generators

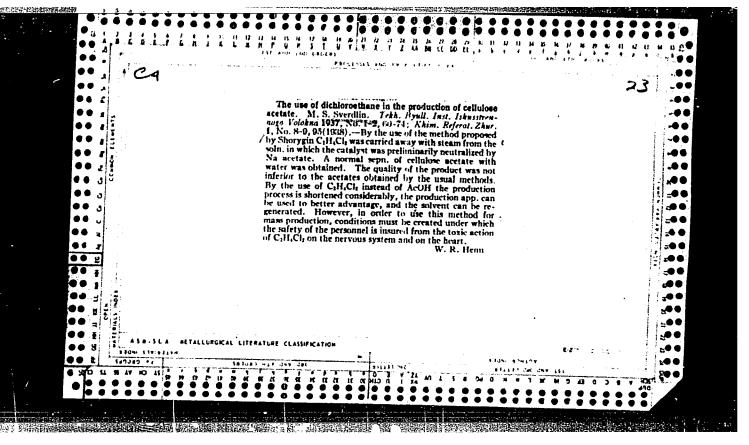
Fig 1. In driving excavators and other equipment a good deal also depends upon the operating conditions and duty cycle. The method of constructing the external characteristics of a three-winding generator from the no-load curve is then explained with reference to Fig 2. A formula is given for the design of the field winding. A numerical example of generator design is then worked

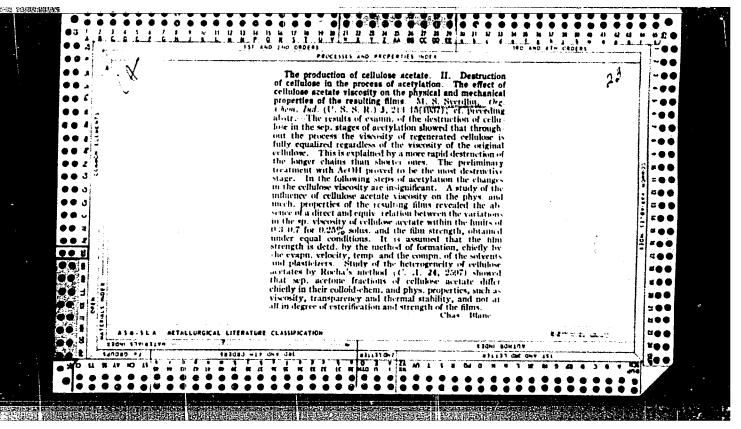
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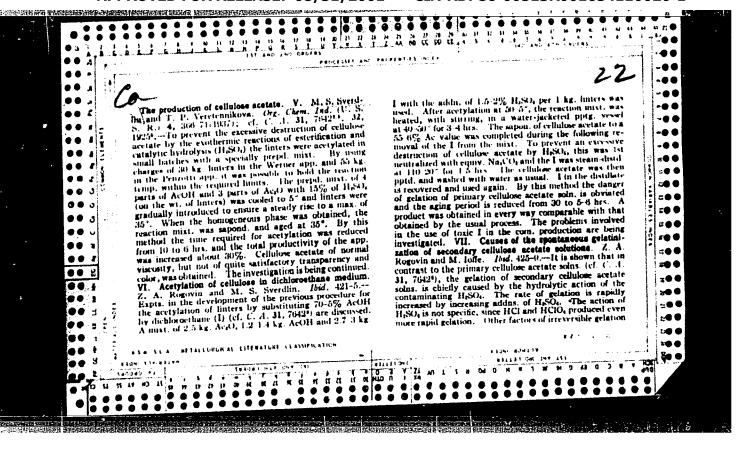
There are 2 figures, 1 table, no references.

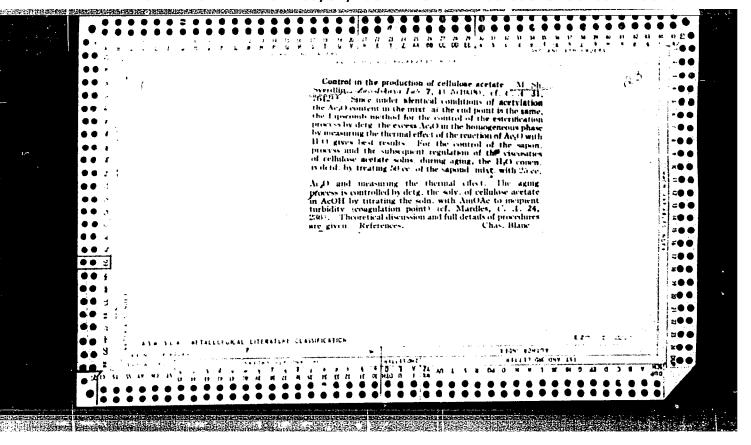
SUBMITTED: June 16, 1958

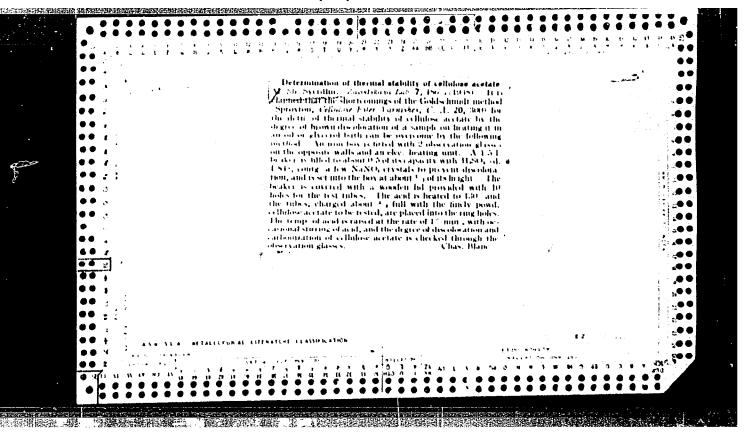


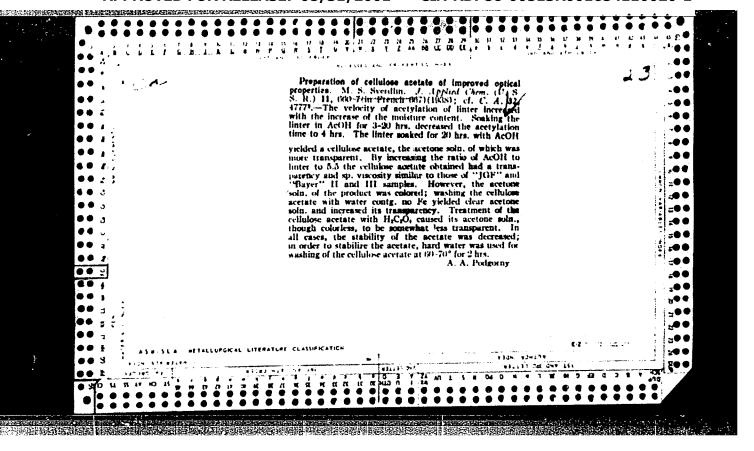


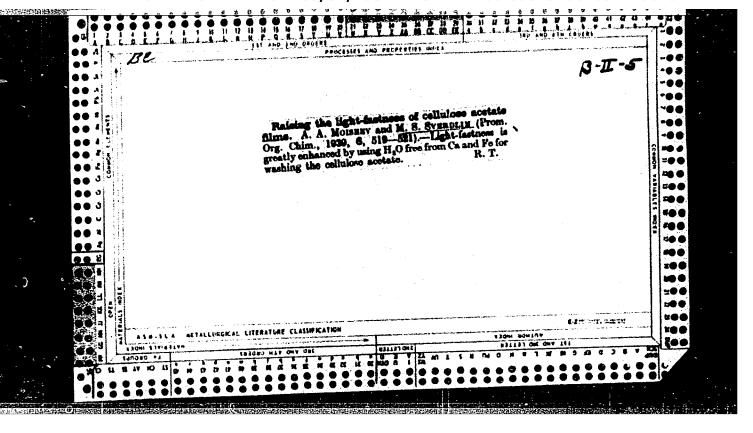


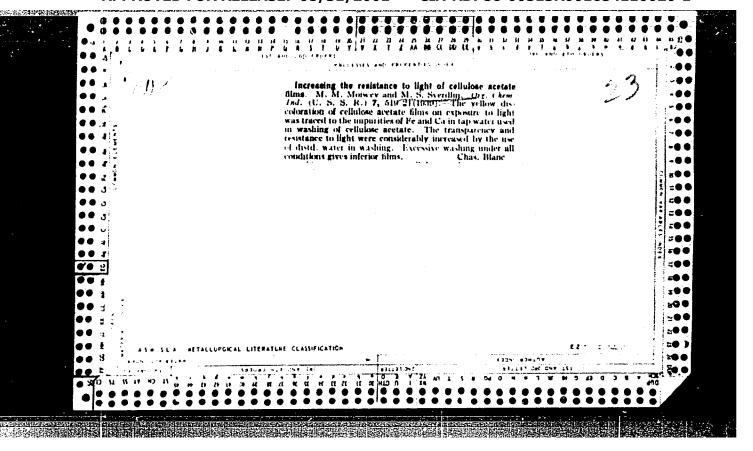












5(3) .

sov/63-4-3-6/31

AUTHORS:

Raskin, Ya.L., Candidate of Chemical Sciences, Sverdlin, M.S., Candidate

of Technical Sciences

TITLE:

Perchloro-Vinyl Resins and Various Copolymers of Vinylchloride as Film-

Forming Materials

PERIODICAL:

Khimicheskaya nauka i promyshlennost', 1959, Vol 4, Nr 3,

pp 327-333 (USSR)

ABSTRACT:

In the USSR there are only two resins based on vinylchloride: the perchlorovinyl resin and the copolymer of vinylchloride with vinyl-idenechloride SVKh-40. Paint coatings with these resins have a high atmospheric resistance and are used in ship and airplane building, etc. It is necessary for the USSR to find substances which are substitutes for the deficient butylacetate. It has been shown / Ref 1, 2 / that the molecular weight determines the physico-chemical properties of the final product, not the chemical composition. The resistance and relative lengthening increases with the degree of polymerization. Resins with a viscosity of 1.58 form coatings with high atmospheric resistance. Low-viscous resins dissolve in xylene and in a mixture of xylene with acetone, but the commercial resin produces a gel with these solvents

Card 1/3

sov/63-4-3-6/31

Perchloro-Vinyl Resins and Various Copolymers of Vinylchloride as Film-Forming Materials

Ref 4]. During dissolution a change of the form of the polymeric macromolecule takes place / Ref 5 /. Plasticizers are dibutylphthalate, tricresylphosphate, etc. Monomeric plasticizers increase the permeability to moisture in the films [Ref 7]. Stabilizers, like dibutyl--tin-dilaurate, are used as light filters for ultraviolet rays and acceptors for HCl which prevent the decomposition of the polymer. Epoxidized oils are as efficient as metal-organic compounds (Table 4). The adhesion of the resins to the painted surface being low, research is going on to use other monomers and grafted copolymers of vinylchloride as film-forming materials. Copolymers of vinylchloride with vinylbutyl ether and methylacrylate with a molecular weight of 30,000 produce coatings of high elasticity and adhesion and good atmospheric and water resistance Ref 18 . The copolymer of vinylchloride with vinylidenechloride is highly soluble in varnish solvents Ref 197. It is elastic, adhesive and frost-resistant. It protects equipment against concentrated mineral acids and alkali for 3 - 5 months / Ref 20 /. A system of primers, intermediate enamels and covering enamels has been developed for the protection of lower parts of ships against corrosion. Ref 27. Grafted copolymers formed by the polymerization of a mixture of monomers of butylmethacrylate and methacrylic acid in a latex

Card 2/3

SOV/63-4-3-6/31

Perchloro-Vinyl Resins and Various Copolymers of Vinylchloride as Film-Forming Materials

of polyvinylchloride are resistant to light, atmospheric conditions, gasoline, oil, water, and are not inflammable. The resins are often used as suspensions in liquids which are no solvents for them. For this purpose diisobutylketone is used as a dispersing agent. There are 30 references, 15 of which are Soviet, 8 English, 4 German, 2 American and 1 Canadian.

Card 3/3

SAPGIR, I.N., doktor tekhn. nauk; IVANOVA, A.A.; GOL'DEERG, M.M.;
SARHARNOV, A.V.; LUBENAN, A.I.; SVERDLIN, M.S.; TYURIN, B.F.
Prinimali uchastiye: PIPLINA, A.I.; IOFFE, M.Ya.; LIVSHITS,
M.L., red.; ZAZUL'SKAYA, V.F., tekhn. red.

[Paint materials; raw materials and intermediate products;
handbook] Lakokrasochnye materialy; syr'e i poluprodukty;
spravochnik. Pod red. I.N.Sapgira. Moskva, Gos.nauchnospravochnik. Pod red. I.N.Sapgira. Moskva, Gos.nauchnotekhn.izd-vo khim. lit-ry, 1961. 506 p. (MIRA 14:12)

(Paint materials)

S/081/62/000/022/080/088 B101/B186

AUTHORS: Raskin, Ya. L., Swerdlin, M. S., Kronman, A. G., Yanovskiy,

D. M.

TITLE: Paint and varnish coatings based on the copolymer obtained by the suspension method from vinyl chloride and vinyl acetate

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 22, 1962, 552, abstract 22P464 (Lakokrasochn. materialy i ikh primeneniye, no. 2,

1962, 10 - 12)

TEXT: Data are given for the composition and properties of copolymers (CP) synthetized by the suspension method from vinyl chloride and vinyl acetate, and for coatings made on this basis. In addition, recipes are given for primers and enamels based on this CP both in combination with other resins (epoxy, modified alkyd resin) and without them. Test results prove the high resistance to atmospheric effects, the good physicomechanical properties, the resistance to water and light and the good appearance of coatings based on CP containing 16 - 17 % of vinyl acetate. [Abstracter's note: Complete translation.]

Card 1/1

MIKHAYLOV, V.V.; NAZARKIN, A.T. [deceased]; RASKIN, Ya.L.; SVERDLIN, M.S.;
YEFREMOVA, V.K.; Prinimala uchastiye: BEREZINA, G.P.

Granulated organic pigments for the paint industry. Lakokras.
mat.i ikh prim. no.3:32-35 '62.

(Pigments)

(Pigments)

SUZEDZIN, SU-

AUTHOR; Sverdlin, S.V., (Tbilisi)

25-58-4-17/41

TITLE

From Tractor Operator to

Academician (Ot traktorista

do akademika)

PERIODICAL:

Nauka i Zhizn ', 1958, Nr 4, pp 43 - 44 (USSR)

a former tractor driver,

ABSTRACT:

Academician Vakhtang Vasil'yevich Makhaldiani of the chair of "Tractors and Motorcars" of the Gruzinskiy sel'skokhozyaystvennyy institut (Georgian Institute of Agriculture) is designing a truck engine to be used in mountain areas. This truck must be equipped with devices to improve the operating conditions of the engine, increase brake efficiency and ensure proper temperatures of the liquid coolant and oil while climbing slopes. First tests have been carried out to speed up the manufacture of this new engine by the Kutaisskiy avtozavod (Kutaisi Automobile Plant). There is I photograph

and 1 sketch.

AVAILABLE;

Library of Congress

Card 1/1

1. Cargo vehicles-Design 2. Motors-Design

£8(1)

SOV/118-59-4-7/25

AUTHORS:

Ziskin, B.F. and Sverdlin, V.M., Engineers

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TITLE:

The Mechanization of Work on Suspension Cable Ways

PERIODICAL:

Mekhanizatsiya i avtomatizatsiya proizvodstva, 1959,

Nr 4, pp 25-26 (USSR)

ABSTRACT:

In the ore mining industry, suspension cable ways are widely used for the transportation of large tonnage loose materials. Their advantages over other means of transportation are generally known. They would be greater if manual operations were automated or mechanized. While the productivity of the ways has increased considerably since 1949, operating expenses per 1 kilometer—ton have remained almost the same. This is explained by the fact that in recent years the number of personnel engaged in loading, unloading and maintenance work has not only not been reduced, but—on the contrary—increased. This is typical not only for the Tyrny-Auzskiy kombinat (Tyrny-Auz Com-

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APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001654110020-1"

bine) but also for many other enterprises. Greater

sov/68-59-5-5/25

AUTHORS: Sverdlin, V.M., and Men'shikov, I.Ye.

TITLE: From Experience in Operation of the Cableway for Transporting Refuse from the Coking Plant of the Cherepovets Metallurgical Works (Opyt ekspluatatsii otval'noy kanatnoy dorogi koksokhimicheskogo tsekha

Cherepovetskogo Metallurgicheskogo Zavoda)

PERIODICAL: Koks i khimiya, 1959, Nr 5, pp 13-15 (USSR)

ABSTRACT: A brief description of the cableway for transporting waste from the coal washery on the above works is given. The improvement in the labour productivity and decrease in the cost of transporting waste achieved on the coking plant due to the replacement of dump cars by the

Card 1/1 cableway is mentioned. There is 1 figure.

ASSOCIATIONS: GPI Proyektavtomatika, and Cherenovetskiy metallurgicheskiy zavod (Cherepovets Metallurgical Works)

S/118/60/000/012/001/009 A161/A033

AUTHOR:

Sverdlin, V.M., Engineer

TITLE:

Automation of Converters in Nonferrous Metallurgy

PERIODICAL:

Mekhanizatsiya i avtomatizatsiya proizvodstva, 1960, No. 12,

pp. 1-4

TEXT: The continuous converter process with top blowing is being studied at the Leningradskiy gornyy institut imeni Plekhanova (Leningrad Mining Institute imeni Plekhanov). Meanwhile the "Gintsvetmet" institute in cooperation with "Giprotsvetmet" has developed an automation project for existing converters. The project is partly realized at the Alaverdskiy medno-khimicheskiy kombinat (Alaverdi Copper-Chemical Combine). The article gives detailed a description of automatic devices on copper converters at Alaverdi and on nickel converters at the "Yuzhuralnikkel'" Combine where automation had been carried out by the "Proyektavtomatika" institute. On the copper converters (Fig.1), the air is measured by a diaphragm and a flow meter with recorder, an electric pulse counter shows the blowing time, and a bellows manometer the air pressure variations. When the air pressure

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S/118/60/000/012/001/009 A161/A033

Automation of Converters in Nonferrous Metallurgy

converter tilts automatically when the blast pressure drops below 0.5 atm (above atmospherical). A secondary MAY2 - 2MN- 308 (MAUS-2MP-30V) air volume meter transmits data to the dispatcher point DS through a pneumo-electric converter. A XA (KhA) thermocouple and a small NCP (PSR) potentiometer in the hood give an emergency signal at temperature dropping below 400°C (indicating air leak). The metal temperature in the converter is lowered by cold additions and by a PATIMP(RAPIR) radiation pyrometer with TOPO 50 (TERE50) telescope and a 300-16AM1 (EPP-16AM1) potentiometer. An experimental dust meter samples flue gas. Dangerous metal bursts-out of converter necks at tilts (due to uneven air distribution) have been eliminated by the use of the pneumatic quick-action MAYC (MAUS) system with pneumatic "K34201" servomotor. The system includes blocking and signalization, and a stand-by circuit for electric motors (Fig. 3). The described automation requires no high capital investment and raises the converter work capacity, which is the more important since converters are limiting the output of reverberatory and shaft furnaces at many plants. The following has yet to be done to attain

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S/118/60/000/012/001/009 A161/A033

Automation of Converters in Nonferrous Metallurgy

Fig. 1: I - converter; II - hood; III - gas collector; IV - regulating gate; V - dust chamber; VI - flue; VII - air takeoff line; VIII - receiver; IX - blast air line; 1 - pulse (pressure) receiving device; 2 - pressure regulator; 3 - magnetic starter; 4 - universal switch; 5 - two-pin push button; 6 - work mechanism; 7 - signal lamp; 8 - electric a.c. drive; 9 - limit switch; 10 - radiation pyrometer; 11 - bimetal heat relay; 12 - closing device; 13 - gate; 14 - thermocouple; 15 - disc diaphragm; 16 - setting selsyn; 17 - light heat relay; 18 - electro-contact manometer; 19 - indicating flow meter with induction pickup; 20 - secondary instrument; 21 - electronic unit; 22 - recording bellows manometer; 23 - pressure drop signal device; 24 - electronic potentiometer; 25 - electric pulse counter; 26 - command-controller; 27 - receiver selsyn; 28 - millivoltmeter. (1) - Signal board in sulfuric-acid shop; (2) - "Converter in blast" signal; (3) - main control board; (4) - relay block; (5) - converter control board; (6) - signal board at reverberatory furnace; (7) - signal board in compressor station; (8) - intake of tail fan in sulfuric acid shop; (9) - gas line to 2nd collector; (10) - cooling water feed; (11) - cooling water takeoff.

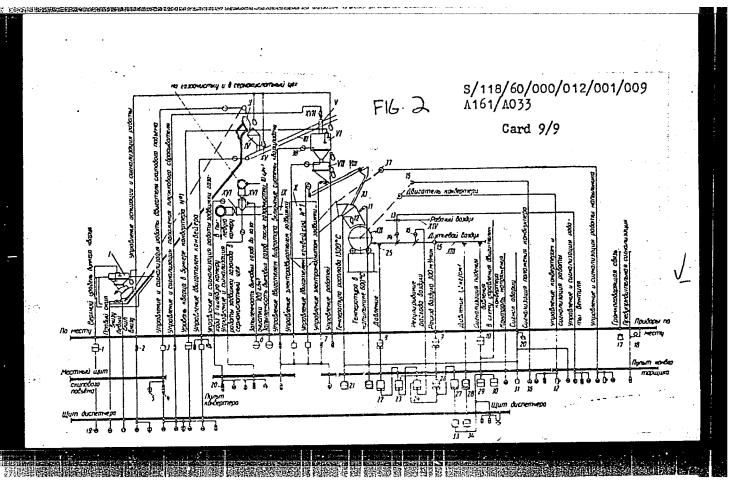
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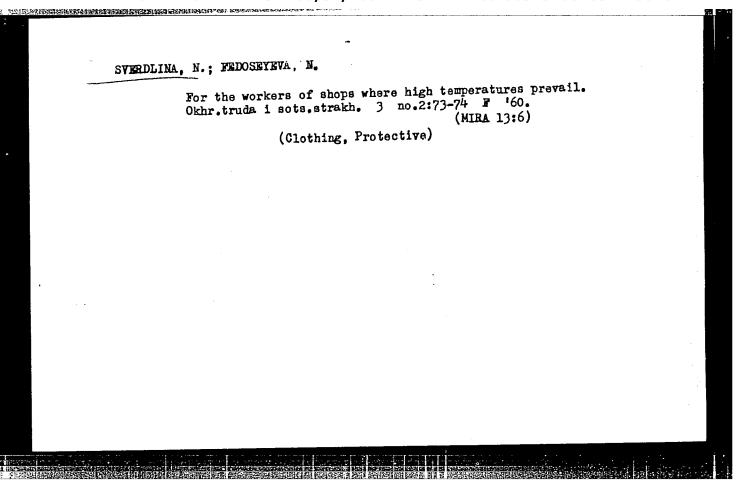
Automation of Converters in Nonferrous Metallurgy

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Fig. 2: I - skip hopper; II - skip; III - conveyer; IV - hopper; V - ploughshare dropper; VI - hopper with automatic scales; VII - hopper; VIII - conveyer; IX - gas flue; X - dust chamber; XI - dust hood; XII - converter; XIII - air line (blowing); XIV - air line; XV - aspiration fan; XVI - closing gate; XVII - electromagnetic drive. 1 - electronic 9cy -1 (ESU-1) level signalizer; 2 - two-pin control push-button; 3 - magnetic starter; 4 - three-pin control push-button; 5 - universal switch; 6 - and anometer with pneumatic MTN -270 (MGP-270) pickup; 9 - membrane-type MMN -100 (DMPK-100) differential manometer with pneumatic disc transmission; 10 - CNAC -1.5 (SPDS-1.5) pressure drop signaller; 11 -TXA -VIII (TKha-VIII) chromel-alumel thermocouple; 12 - T3PA -50 (TERA-50) radiation telescope pyrometer; 13 - valve with electromagnetic drive; 14 - gate; 15 - AN-6 (DP-6) diaphragm; 16 - pneumatic KB -4202 (KZ-4202) servomotor; 17 - the loudspeaker communication dynamic; 18 - loud bell; 19 - signal lamp; 20 - siren; 21 - automatic electronic indicating and writing 3NN-16 AM1 (EPP-16AM1) potentiometer; 22 - EN -28B (BP-28V) lead unit; 23 - EC -34A

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001654110020-1





SVERDLINA, N. T.; LUKINA, Z. K. (Leningrad)

Bronchial asthma in workers employed in offset printing and measures for its prevention. Gig. truda i prof. zab. no.12:44-55 '61. (MIRA 14:12)

1. Sanitarno-epidemiologicheskaya stantsiya Petrogradskogo rayona.

(ASTHMA) (OFFSET PRINTING-HYGIENIC ASPECTS)

Sverdlina, R. 3. - "On the problem of diagnosing various in turion to the liver", Trudy Astroids, g.c., red. in-ta, Vol. IX, 1949, p. 129-33.

So: U-3042, 11 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 8, 1949).

SVERDLINA, R. S. Doc Cand Med Sci -- (diss) "Materials concerning shifts in the substitute of some biochemical improvements during malaria."

Astrakhan', 1957, 10 pp 20 cm. (Astrakhan' State Medical Inst),

200 copies

(KL, 21-57, 107)

-1167

SVERDLINSKIY, Kh.Yu., inzh.

Pheumatic equipment for supplying machine tools with lubricants.

Mash.Bel. no.5:188-189 '58. (MIRA 12:11)

(Metalworking lubricants)

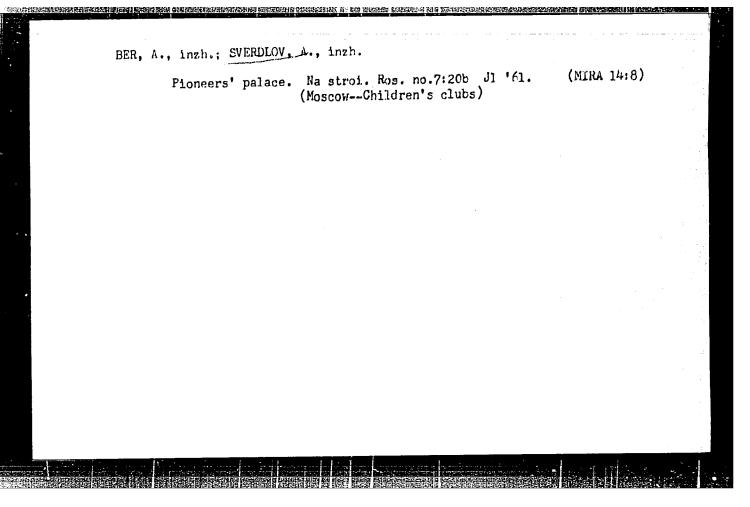
(Machine tools—Attachments)

SVERDLINSKIY, M.Yu.; RYBAKOVA, I.V.

Experimental use of K-17 glue. Der.prem.5 no.4:24 Ap '56.(MIRA 9:7)

1.Shumerlinskiy mebel'nyy kembinat.

(Glue)



A quarter of a century at a worthy post. Fel*4. i akush. 26 no.ll:
(MIRA 15:2)
61 N '61.

1. Zaveduyushchiy Rubtsovskim Otdelom zdravookhraneniya Gorodskogo
ispolnitel'nogo komiteta.
(ANNIVERSARIES)

SVERDLOV, A.B.; ZIGMUND, F.F.; NESMELOV, V.V.

Extracting lanolin from wash water of the Kazan Fur Combine.
Trudy KKHTI no.13:85-89 '48. (MIRA 12:12)

1.Kazanskiy khimiko-tekhnologicheskiy institut im. S.M. Kirova, kafedra obshchey khimicheskoy tekhnologii.
(Kazan-Wool-fat)

SVERDLOV, A.B., (Lieutenant Colonel of the Medical Service), BISPEN, V.I., (Captain of the Medical Service,) and YAGODINSKIY, V.N., (Captain of the Medical Service).

"The E pidemiological Effectiveness of A2 Influenza Vaccine."

Voyenne-Meditsinskiy Zhurnal, No 12, December 1961, pp 62-73

SVERDLOV, A. B., podpolkovnik meditsinskoy sluzhby; BISPEN, V. I.,
kapitan meditsinskoy sluzhby; YAGODINSKIY, V. N., kapitan
meditsinskoy sluzhby

Epidemiological effectiveness of the A2 influenza vaccine.
Voen.-med. zhur. no.12:62 D '61. (MIRA 15:7)

(INFLUENZA)

KAPIAN A.S.; SVERDLOV, A.B.

Asymptomatic parotitis in vaccinated and nonvaccinated schoolchildren. Zhur. mikrobiol., epid. i immun. 41 no.12:22-25 D '64.

(MIRA 18:3)

1. Leninskaya gorodskaya sanitarno-epidemiologicheskaya stantsiya.

NOVIKOV, K.D., master; SVERDLOV, A.G., inshener.

Packing the joints of air preheater sections. Energetik 1 no.6:15-16 N '53. (MERA 6:11) (Steam boilers)

SVEHILOV, A. Q.

729. Vred alkogolizma. Novosibirak, kn. 12d., 1954, 24s. 20sm. 7.000 ekz. 25k.[54-54307]p 013.01 + 392

S0: Knizhnaya Letopis, Vol. 1, 1955

USSR/Medicine Roentgenology

FD-697

Card 1/1

: Pub 132 7/22

Author

: Pinskiy, Ya. I., Condidate Medical Sciences; Sverdlov, A. G., Candidate Medical Sciences; Titov, G. N. (Novosibirsk)

Title

: The reflex component of the influence of X-rays on the inflammation

process

Periodical

: Vest. Rent. i Rad. 35-41, May/June 1954

Abstract

: Early roentgenotherapy of the inflammation process initiated by infection of the dermis with staphylococcus aureus, stops the inflammation in rabbits and brings about its retrogression. Preliminary pricking of the nucleus of the inflammation with a novocaine solution drastically lowers the effectivity of the roentgenotherapy. Apparently the reflex influences arising as a result of the action of the X-rays and directed towards the liquidation of the inflammation changes, plays an important role. Two tables. Four references.

Institution

: --

Submitted

SVERDLOV, A.G.

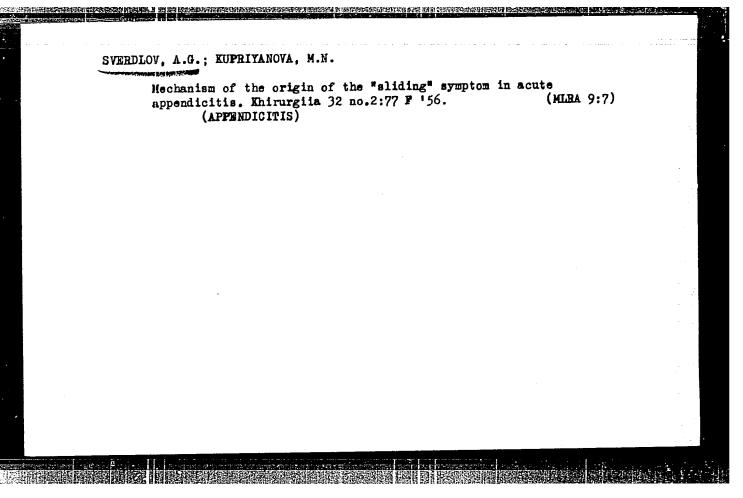
Effect of hypophysectomy on functional state of the retinal rods. Probl. fiziol.opt. 11:123-129 '55. (MIRA 9'6)

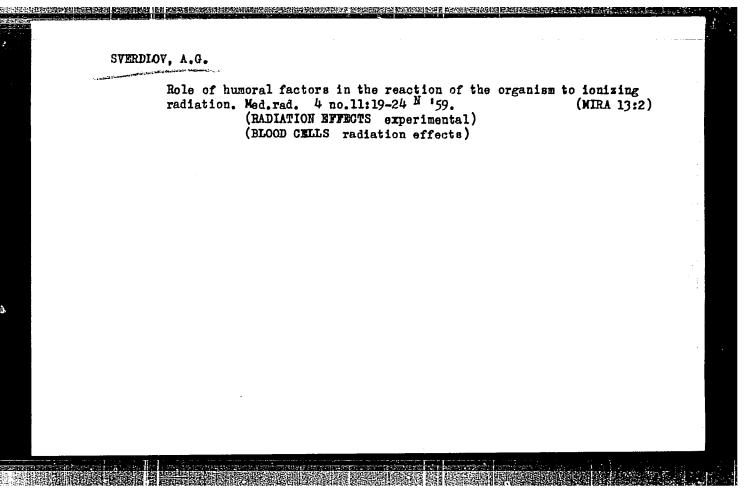
1. Kafedra fiziologii Voyenno-meditsinskoy akademii imeni S.M. Kirova.

(PITUITARY GLAND, effect of excision,
on retinal light sensitivity (Rus))

(RETINA, physiology,
eff. of hypophysectomy on retinal light sensitivity (Rus))

Distortion of the aortic depressor reflex in shock-type conditions. Arkh. pat. 17 no.4:80-81 0-D '55. (MIRA 9:2) (WOUNDS AND INJURIES, experimental, eff. of shock-like conditions to blood pressure reaction to aortic depressor reflex) (BLOOD PRESSURE, physiology eff. of traum. shock-like cond. on aortic depressor reflex) (ACRTA, physiology, eff. of traum. shock-like cond. on aortic depressor reflex)



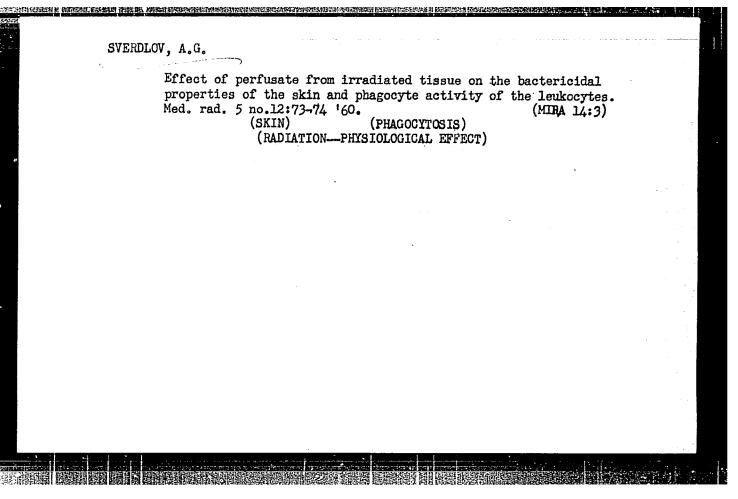


IZUTSEV, N.K., kapitan meditsinbkoy sluzhby; SVERDLOV, A.G., podpolkovnik meditsinskoy sluzhby

Medical factors contributing to night firing. Voen.-med.zhur. no.12:65-66 159.

(VITAMINS-A) (SHOOTING, MILITARY)

	Features tissues.	of the antigen p	roperties of pe	erfusate from irra (MIRA	diated 13:12)	
		Med. rad. 5 no. (RADIATION—PHY (ANTIGENS	AND ANTIBODIES	SOTS)		
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						- :



27.1220

30355 S/205/61/001/004/014/032 D298/D303

AUTHOR:

Sverdlov, A. Ga

TITLE:

The effects on the blood vessels of humoral toxic agents formed during irradiation

PERIODICAL:

Radiobiologiya, v. 1, no. 4, 1961, 543-546

TEXT: In previous research (Ref. 15: Med. radiobiologiya, 11, 19, 1959; Ref. 16: Med. radiobiologiya, 9, 88, 1960) with perfusion of irradiated tissues, the author noted the appearance of substances which had a toxic effect on the morphological composition of the peripheral blood; these substances were characterized by thermolability and changed antigenic properties. The same method was used in the present instance to study the effects of humoral agents on the blood vessels. Tests were made of the vasomotor properties of a perfusate of the irradiated isolated ear and irradiated hipbone of rabbits. Perfusion was effected either during irradiation or 1, 2, 3, 4, 5 or 7 days after it. Irradiation was effected with an PyM-3 (RUM-3) apparatus at an intensity of

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30355

S/205/61/001/004/014/032 D298/D303

The effects on ...

above-mentioned substances was specific to irradiation, or whether similar substances appeared in other traumatic states. With this aim, the author investigated the effects of perfusate from scalded rabbit ear tissue on the blood vessels. The tests showed that the vasomotor effect observed in the experiments with radiation has a certain specificity. Ionizing radiation triggers off the formation of substances in the tissues which possess the ability to change the lumen of the blood vessels. There are I table and 19 references: 16 Soviet-bloc and 3 non-Soviet-bloc. The references to the English-language publications read as follows: A. E. Light, Radiology, 25, 734, 1935; T. J. Haley, M. K. Andem, R. F. Riley, K. Williams, Proc. Soc. Exptl. Biol. and Med., 79, 547, 1952.

ASSOCIATION:

Okruzhnoy voennyy gospital' No 333 (Okrug Military Hospital No. 333), Novosibirsk

SUBMITTED:

February 12, 1961

Card 3/3

32754 s/205/61/001/006/014/022 D243/D305

27 2240 also 2209

AUTHOR:

Sverdlov, A.G.

TITLE:

Study of specific changes in tissue antigen properties

after exposure to ionizing radiation

PERIODICAL: Radiobiologiya, v. 1, no. 6, 1961, 904 - 905

TEXT: Autoallergy and autoimmunity are of great importance in the pathogenesis of radiation sickness. Previous work in this field, the author states, had been carried out in vitro, using high radiation doses. In the present paper he studies the changes in tissue antigen properties after ionizing radiation and compares the antigen properties of irradiated and burned tissue. Burning was selected because 1) it may cause marked autoimmunity and 2) it is likely to accompany radiation. L.A. Zil'ber's method of active anaphylaxis and desensitization was used. Guinea pigs were sensitized with a subcutaneous injection of perfusate, containing 8 - 10 mg of albumen, from a rabbit, whose ear had been burned with 200 ml of water at 100°C after isolation by the Kravkov-Pisemskiy method and

Card 1/2

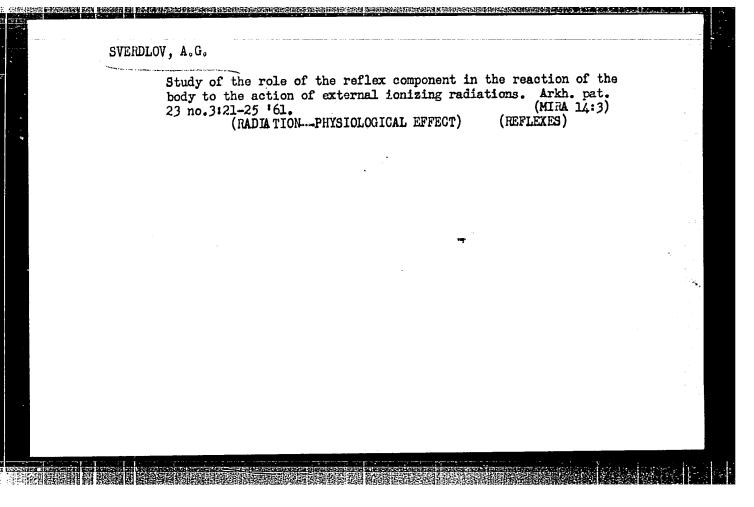
Syerific changes in the antigenic properties of tissues caused by ionizing radiation. Radiobiologiia 1 no.6:905-906 '61.

(MIRA 15:2)

1. Okruzhnoy voyenno gospital' No.333, Novosibirsk.
(RADIATION_PHYSIOLOGICAL EFFECT)
(ANTIGENS AND ANTIBODIES)

Characteristics of humoral agents forming under the influence of ionizing radiation. Pat. fiziol. i eksp. terap. 5 no.6:63-64 (MIRA 15:4)

1. Nauchnyy rukovoditel' - chlen-korrespondent AMN SSSR prof.
P.D.Gorizontov.
(RADIATION--PHYSIOLOGICAL EFFECT) (BODY FLUIDS)



KEHKIS, Yu.Ya.; SYERDLOV, A.G.; YASNOVA, I.N.; URZHENKO, A.V.

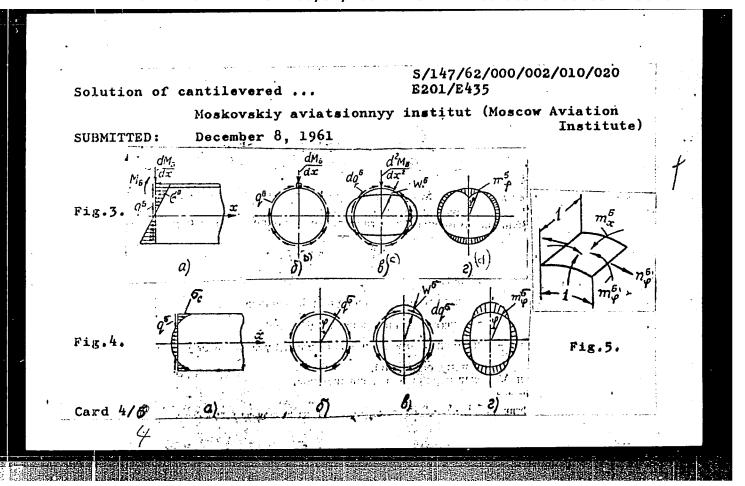
Possibility of a distance mutagenic action of ionizing radiation in mammals. Radiobiologia 4 no.6:847-853 '64. (MIRA 18:7)

l. Institut tsitologii i genetiki Sibirskogo otdeleniya AN SSSR, Novosibirsk, i Fiziko-tekhnicheskiy institut AN SSSR, Leningrad.

VARVAK, P.M.; KIRIYENKO, V.I.; CHUDNOVSKIY, V.G.; KRYLOV, V.K.; BRAUDE, Z.I.; FKIMYAN, V.A.; IVANOV-DYATLOV, A.I.; FRANOV, P.I.; ASHAKOV, A.Ye.; BERDICHEVSKIY, N.M.; IZAKSON, S.I.; FOZIOV, V.P.; KOLESHI, K.S.; KUYDICH, S.A.; SYERDLOV, A.I.; SIMON, Yu.A.; SHEYNFAYN, S.H.; BOLOTIN, V.V.; GOL'DENELAT, I.I.

Book reviews and Libliography. Stroi. mekh. i rasch. scor. 3 no.6:46-50 '61. (MIRA 15:4) (Bibliography—Structures, Theory of)

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galution of cantileve	red ···	E201/E435 of stringers and ribs (9)	•
solucia = IW/Δε; t	and De pro-	(9)	1
respectively.	$G_{c} \stackrel{\text{def}}{=} \sum_{n} G_{x_{n}, n} \cdot G_{\phi_{n}, n}$	nown and n = 1,2,3.	V
	that don is Ki	dn."	(11)
where it is assumed that $\hat{f}^{do}_{cdm} = R^{\delta}$	$\frac{d^{\alpha}x^{i,n}}{dx} \overline{q_{\Psi,n}^{\alpha}}, \qquad (10)$	\q_{v,n} = \frac{1}{3}	
where it is assumed $q^{\circ} = R^{\delta} \int_{0}^{s} \frac{d^{\circ}c}{dx} d\phi = R^{\delta} \sum_{n=0}^{\infty} \frac{1}{n} \int_{0}^{\infty} \frac{d^{\circ}c}{n} d\phi = R^{\delta} \sum_{n=0}^{\infty} \frac{1}{n} \int_{0}^{\infty} \frac{d^{\circ}c}{dx} d\phi = R^$		s of the shell;	}
- 666	ASSUM-	atringer.	
δ-6 - through -octi	onar a-	$n! = R^{28}$	(15)
$f_{ctp} = cross_2 = \frac{1}{2}$ $m_{c}^{\circ} = R^{3\delta} \sum_{n=0}^{\infty} \frac{d^{3\delta}}{2}$	z.n. m., i (12)	$\mathbf{w}^{a} = \frac{R^{6} \delta}{E I_{m. n}} \sum_{n} \frac{d^{2} \sigma_{x, n}}{dx^{2}} \mathbf{w}^{a}_{\psi, n}$	(15)
The second secon	El d'w (14)	$\mathbf{w}^{\circ} = \frac{1}{EI_{\mathbf{m}, \mathbf{n}}} \sum_{n} dx^{2}$	1
$m_x^* = -$	$-Elc. n. \frac{d^2w^2}{dx^2} \qquad (14)$		
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AUTHOR:

Sverdlov, A.I.

TITLE:

The determination of the reduced cross-sectional area of a cylindrical shell under loading due to tangential

forces along the generators

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Aviatsionnaya

tekhnika, no.3, 1962, 98-101

Due to the tangential forces there arise normal stresses on cross sections of the shell. The reduced area of cross section Fred is determined from the relation (1)

 $F_{red^{\circ}max} = \int qdx$

The variation of q along the x-axis (parallel to the generators) is given by

 $q = -q^0 e^{-\beta x} \cos \beta x$

where q^{O} is the value of q at x=0 and β is a function of the radius, the reduced thickness of the skin of the shell, Card 1/2

S/147/62/000/003/005/007 The determination of the reduced ... E031/E435

the cross-sectional moment of inertia and the moment of inertia of a rib. The stressed state of the shell is determined from the sum of the following terms: normal stresses (plane law assumed), corresponding self-balanced tangential forces and bending moments in the circumferential direction, self-balanced normal stresses, corresponding self-balanced tangential forces and bending moments in the circumferential direction. From the expression derived for F_{red} it is seen that as x tends to infinity F_{red} tends to zero, while F_{red} is a maximum for x = 0. An approximate expression is derived for this maximum value. There are 2 figures.

SUBMITTED: April 13, 1962

Card 2/2

SOKOLOV, V.I., doktor tekhn.nauk, prof.; KAPUSTIN, I.I., doktor tekhn. nauk, prof., retsenzent; SVERDLOV, A.I., kand. tekhn. nauk, red.; KARGANOV, V.G., inzh., red.; EL'KIND, V.D., tekhn. red.

[Fundamentals of the design and construction of parts and units of food machinery] Osnovy rascheta i konstruirovaniia detalei i uzlov pishchevogo oborudovaniia. Moskva, Mashgiz, 1963. 315 p. (MIRA 17:3)

